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-	223	360/98.08.ccls.	USPAT; JPO	2004/01/06 14:52
-	153	360/98.08.ccls. and (disk adj drive)	USPAT; JPO	2002/09/24 15:36
-	132	(360/98.08.ccls. and (disk adj drive)) and assembly	USPAT; JPO	2002/09/24 15:16
-	47	((360/98.08.ccls. and (disk adj drive)) and assembly) and balanc\$3	USPAT; JPO	2002/09/24 15:18
-	15	4933927.URPN.	USPAT	2002/09/24 15:21
-	9	("4224648" "4272795" "4358803" "4697216" "4933927" "4989107" "5010427" "5121272" "5610900").PN.	USPAT	2002/09/24 15:28
-	216	29/603.03, 603.09.ccls.	USPAT; JPO	2004/01/05 15:49
-	195	(29/603.03, 603.09.ccls.) and (disk adj drive)	USPAT; JPO	2002/09/24 15:36
-	15240	disk same balanc\$3	USPAT; JPO; DERWENT	2003/08/05 14:56
-	399	disk adj balanc\$3	USPAT; JPO; DERWENT	2003/08/05 14:56
-	17	(disk adj balanc\$3) and hub and (spindle adj motor)	USPAT; JPO; DERWENT	2003/08/05 14:57
-	2	("5964027").PN.	USPAT; JPO; DERWENT	2004/01/05 15:20
-	13	("2511934" "3684841" "3842544" "4667446" "4941293" "5099614" "5142173" "5167096" "5449313" "5471732" "5482497" "5609657" "5763967").PN.	USPAT	2003/08/05 15:00
-	410	(disc or disk) adj balanc\$3	USPAT; JPO; DERWENT	2004/01/05 16:46
-	25584	sensor with vibration	USPAT; JPO; DERWENT	2004/01/05 16:40
-	3646	sensor with vibration with measur\$4	USPAT; JPO; DERWENT	2004/01/05 15:22
-	224	sensor with (phase adj angle) with measur\$4	USPAT; JPO; DERWENT	2004/01/05 15:29
-	0	((disc or disk) adj balanc\$3) and (sensor with vibration) and (sensor with vibration with measur\$4) and (sensor with (phase adj angle) with measur\$4)	USPAT; JPO; DERWENT	2004/01/05 15:23
-	6	((disc or disk) adj balanc\$3) and (sensor with vibration)	USPAT; JPO; DERWENT	2004/01/05 15:28
-	4	4543463.URPN.	USPAT	2004/01/05 15:24
-	7	6198715.URPN.	USPAT	2004/01/05 15:25
-	1	6185171.URPN.	USPAT	2004/01/05 15:26
-	16	("4600863" "4808863" "5402400" "5471381" "5473698" "5493631" "5510939" "5532990" "5555231" "5585976" "5608843" "5609230" "5677609" "5936787" "6029095" "6052349").PN.	USPAT	2004/01/05 15:26
-	5	("5260929" "5379990" "5636081" "5737304" "5903540").PN.	USPAT	2004/01/05 15:28
-	0	(sensor with vibration) and (("4600863" "4808863" "5402400" "5471381" "5473698" "5493631" "5510939" "5532990" "5555231" "5585976" "5608843" "5609230" "5677609" "5936787" "6029095" "6052349").PN.) and ("5260929" "5379990" "5636081" "5737304" "5903540").PN.)	USPAT; JPO; DERWENT	2004/01/05 15:29
-	0	(sensor with vibration) and 4543463.URPN. and 6198715.URPN.	USPAT; JPO; DERWENT	2004/01/05 15:29
-	1	((disc or disk) adj balanc\$3) and (sensor with vibration with measur\$4)	USPAT; JPO; DERWENT	2004/01/05 15:29
-	0	((disc or disk) adj balanc\$3) and (sensor with (phase adj angle) with measur\$4)	USPAT; JPO; DERWENT	2004/01/05 15:29

-	1028	sensor with (phase adj angle)	USPAT; JPO; DERWENT	2004/01/05 15:29
-	0	((disc or disk) adj balanc\$3) and (sensor with (phase adj angle))	USPAT; JPO; DERWENT	2004/01/05 15:29
-	8106	(disc or disk) adj assembly	USPAT; JPO; DERWENT	2004/01/05 15:30
-	10	(sensor with (phase adj angle)) and ((disc or disk) adj assembly)	USPAT; JPO; DERWENT	2004/01/08 13:25
-	1	(disc or disk) adj balanc\$3 with laser	USPAT; JPO; DERWENT	2004/01/05 15:34
-	0	20020040891.URPN.	USPAT;	2004/01/05 15:34
-	1	((disc or disk) adj balanc\$3) with laser	USPAT; JPO; DERWENT	2004/01/05 15:34
-	3	((disc or disk) adj balanc\$3) same laser	USPAT; JPO; DERWENT	2004/01/05 15:37
-	6	((disc or disk) adj balanc\$3) and (laser with cut\$3)	USPAT; JPO; DERWENT	2004/01/05 15:37
-	47	((disc or disk) adj balanc\$3) and laser	USPAT; JPO; DERWENT	2004/01/05 15:40
-	8	360/98.08.ccls. and ((disc or disk) adj balanc\$3)	USPAT; JPO	2004/01/05 15:48
-	1	6198715.URPN. and laser	USPAT; JPO	2004/01/05 15:49
-	0	(360/98.08.ccls. and ((disc or disk) adj balanc\$3)) and laser	USPAT; JPO	2004/01/05 15:49
-	296	29/603.03, 603.09.ccls. and ((disc or disk) adj balanc\$3)	USPAT; JPO	2004/01/05 15:50
-	67	(29/603.03, 603.09.ccls. and ((disc or disk) adj balanc\$3)) and laser	USPAT; JPO	2004/01/06 14:53
-	11	(29/603.03, 603.09.ccls. and ((disc or disk) adj balanc\$3)) and (laser with (cut\$4 or remov\$3))	USPAT; JPO	2004/01/05 15:51
-	296	29/603.03, 603.09.ccls. and ((disc or disk) adj balanc\$3)	USPAT; JPO	2004/01/05 15:51
-	11	(29/603.03, 603.09.ccls. and ((disc or disk) adj balanc\$3)) and (laser with (cut\$4 or remov\$3))	USPAT; JPO	2004/01/05 15:51
-	1888	29/\$.ccls. and (laser with (cut\$4 or remov\$3))	USPAT; JPO	2004/01/05 15:51
-	15	29/\$.ccls. and ((disc or disk) adj balanc\$3)	USPAT; JPO	2004/01/05 15:52
-	0	(29/\$.ccls. and ((disc or disk) adj balanc\$3)) and laser	USPAT; JPO	2004/01/05 15:52
-	1	((disc or disk) adj balanc\$3) with laser	USPAT; JPO; DERWENT	2004/01/05 15:52
-	0	((disc or disk) adj balanc\$3) and laser	JPO	2004/01/05 16:39
-	23	(disc or disk) adj balanc\$3	JPO	2004/01/05 16:46
-	7188	sensor with vibration	JPO	2004/01/05 16:40
-	0	((disc or disk) adj balanc\$3) and (sensor with vibration)	JPO	2004/01/05 16:40
-	76943	((disc or disk) adj balanc\$3) assembly	JPO	2004/01/05 16:41
-	1	((disc or disk) adj balanc\$3) and assembly	JPO	2004/01/05 16:41
-	18	hong-soon-kyo.in.	USPAT; JPO; DERWENT	2004/01/05 16:46
-	174	lee-chul-woo.in..in.	USPAT; JPO; DERWENT	2004/01/05 16:46
-	174	lee-chul-woo.in.	USPAT; JPO; DERWENT	2004/01/05 16:47
-	41	jung-seung-tae.in.	USPAT; JPO; DERWENT	2004/01/05 16:47
-	1	choa-sung-hoon.in.	USPAT; JPO; DERWENT	2004/01/05 16:47

-	208	hong-soon-kyo.in. or lee-chul-woo.in..in. or lee-chul-woo.in. or jung-seung-tae.in. or choa-sung-hoon.in.	USPAT; JPO; DERWENT	2004/01/05 16:47
-	0	((disc or disk) adj balanc\$3) and (hong-soon-kyo.in. or lee-chul-woo.in..in. or lee-chul-woo.in. or jung-seung-tae.in. or choa-sung-hoon.in.)	USPAT; JPO; DERWENT	2004/01/05 16:48
-	4	((disc or disk) adj balanc\$3) assembly) and (hong-soon-kyo.in. or lee-chul-woo.in..in. or lee-chul-woo.in. or jung-seung-tae.in. or choa-sung-hoon.in.)	USPAT; JPO; DERWENT	2004/01/05 16:49
-	73	(hong-soon-kyo.in. or lee-chul-woo.in..in. or lee-chul-woo.in. or jung-seung-tae.in. or choa-sung-hoon.in.) and (disc or disk) and laser	USPAT; JPO; DERWENT	2004/01/05 16:51
-	0	(hong-soon-kyo.in. or lee-chul-woo.in..in. or lee-chul-woo.in. or jung-seung-tae.in. or choa-sung-hoon.in.) and (disc or disk) and laser and balanc\$3	USPAT; JPO; DERWENT	2004/01/05 16:49
-	0	(hong-soon-kyo.in. or lee-chul-woo.in..in. or lee-chul-woo.in. or jung-seung-tae.in. or choa-sung-hoon.in.) and ((disc or disk) same laser) and balancing	USPAT; JPO; DERWENT	2004/01/05 16:50
-	9	(hong-soon-kyo.in. or lee-chul-woo.in..in. or lee-chul-woo.in. or jung-seung-tae.in. or choa-sung-hoon.in.) and ((disc or disk) same laser) and vibrat\$3	USPAT; JPO; DERWENT	2004/01/05 16:51
-	1	(hong-soon-kyo.in. or lee-chul-woo.in..in. or lee-chul-woo.in. or jung-seung-tae.in. or choa-sung-hoon.in.) and balanc\$3	USPAT; JPO; DERWENT	2004/01/05 16:51
-	65	(hong-soon-kyo.in. or lee-chul-woo.in..in. or lee-chul-woo.in. or jung-seung-tae.in. or choa-sung-hoon.in.) and ((disc or disk) same laser)	USPAT; JPO; DERWENT	2004/01/05 16:54
-	122	balanc\$3 with ((cut\$3 or remov\$3) with laser)	USPAT; JPO; DERWENT	2004/01/05 16:55
-	2327	219/121.69,121.85.ccls.	USPAT; JPO; DERWENT	2004/01/06 14:53
-	0	((((measur\$3 or test\$3) same (magnetoresistance or resistance) with sensor))) and ((disc or disk) adj balanc\$3) and laser	USPAT; JPO	2004/01/06 14:53
-	15	((("3482075") or ("3909584") or ("4096988") or ("3499136") or ("3538298") or ("3663795") or ("3755646") or ("4543463")).PN.	USPAT; JPO; DERWENT	2004/01/06 14:53
-	2	(photo adj sensor) with (phase adj angle)	USPAT; JPO; DERWENT	2004/01/08 13:25
-	4	(photo with sensor) with (phase adj angle)	USPAT; JPO; DERWENT	2004/01/08 13:33
-	1138453	((measur\$3 or detect\$3) with (phase adj angle)) wth sensor	USPAT; JPO; DERWENT	2004/01/08 13:33
-	1135044	((measur\$3 or detect\$3) adj (phase adj angle)) wth sensor	USPAT; JPO; DERWENT	2004/01/08 13:34
-	1176	((measur\$3 or detect\$3) adj (phase adj angle))	USPAT; JPO; DERWENT	2004/01/08 13:36
-	28054	photosensor	USPAT; JPO; DERWENT	2004/01/08 13:34
-	3	((measur\$3 or detect\$3) adj (phase adj angle))) and photosensor	USPAT; JPO; DERWENT	2004/01/08 13:34
-	5950	((measur\$3 or detect\$3) with (phase adj angle))	USPAT; JPO; DERWENT	2004/01/08 13:36
-	36	photosensor and (((measur\$3 or detect\$3) with (phase adj angle)))	USPAT; JPO; DERWENT	2004/01/08 13:36

-	8	((measur\$3 or detect\$3) with (phase adj angle)) with ((photosensor or (phot adj sensor)))	USPAT; JPO; DERWENT	2004/01/08 13:37
-	4	4543463.URPN.	USPAT	2004/01/08 15:38
-	5	4773019.URPN.	USPAT	2004/01/08 15:39
-	18	4096988.URPN.	USPAT	2004/01/08 15:41
-	6	3909584.URPN.	USPAT	2004/01/08 15:49
-	12	3538298.URPN.	USPAT	2004/01/08 15:44
-	0	dust adj inhaler	USPAT; JPO; DERWENT	2004/01/13 12:58
-	13955	dust with (inhaler or suction)	USPAT; JPO; DERWENT	2004/01/13 12:58
-	1280	dust adj (inhaler or suction)	USPAT; JPO; DERWENT	2004/01/13 12:58
-	15	(dust adj (inhaler or suction)) same laser	USPAT; JPO; DERWENT	2004/01/13 13:01
-	0	(dust adj (inhaler or suction)) same laser same robot	USPAT; JPO; DERWENT	2004/01/13 13:02
-	1	(dust adj (inhaler or suction)) same laser same mov\$3	USPAT; JPO; DERWENT	2004/01/13 13:03
-	53	(photo adj sensor) with (irradiat\$3 adj light)	USPAT; JPO; DERWENT	2004/01/13 13:04
-	0	(photo adj sensor) with (irradiat\$3 adj light) with (phase adj angle)	USPAT; JPO; DERWENT	2004/01/13 13:04
-	0	(photo adj sensor) with (irradiat\$3 adj light) same (phase adj angle)	USPAT; JPO; DERWENT	2004/01/13 13:04
-	7	(photo adj sensor) same (phase adj angle)	USPAT; JPO; DERWENT	2004/01/13 13:04
-	4	(photo adj sensor) same (phase adj angle) same light	USPAT; JPO; DERWENT	2004/01/13 13:21
-	3078	(sensor) same ((phase adj angle) or vibrat\$3) same light	USPAT; JPO; DERWENT	2004/01/13 13:21
-	24	(sensor) same ((phase adj angle) or vibrat\$3) same (irradiat\$3 adj light)	USPAT; JPO; DERWENT	2004/01/13 13:21

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4 Dynamics of glide head in the proximity contact regime
Wei Yao; Kuo, D.; Sundaram, R.;

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5 Characterization of disk vibrations on aluminum and alternate subs

McAllister, J.S.;
 Magnetism, IEEE Transactions on , Volume: 33 , Issue: 1 , Jan. 1997
 Pages:968 - 973

[\[Abstract\]](#) [\[PDF Full-Text \(704 KB\)\]](#) **IEEE JNL**

6 Slider dynamics during continuous contact with textured and smooth disks in ultra low flying height

Tanaka, H.; Yonemura, S.; Tokisue, H.;
 Asia-Pacific Magnetic Recording Conference, 2000. APMRC 2000 , 6-8 Nov. 2000
 Pages:TB3/1 - TB3/2

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7 Dual-stage servo with on-slider PZT microactuator for hard disk drive
Yaolong Lou; Peng Gao; Bin Qin; Guoxiao Guo; Eng-Hong Ong; Takada, A.; Ohtsuka, K.;

Magnetism, IEEE Transactions on , Volume: 38 , Issue: 5 , Sept. 2002
 Pages:2183 - 2185

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8 Measurement of head/disk spacing modulation using a two channel optic laser Doppler vibrometer

Riener, T.A.; Goding, A.C.; Talke, F.E.;
 Magnetism, IEEE Transactions on , Volume: 24 , Issue: 6 , Nov 1988
 Pages:2745 - 2747

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